

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A computer-readable storage device storing a computer program product ~~for deriving a metadata API from a metamodel in order to develop an application, the computer program product being operable to cause a~~ a data processing apparatus to:
 - receive ~~[[the]]~~a metamodel in a first language, the metamodel describing a diagram of classes that define one or more development objects, the development objects representing building blocks for developing ~~[[the]]~~an application;
 - convert the metamodel to a model description that describes the metamodel in a second language according to an interchange format;
 - generate a set of intermediate objects to represent the classes of the metamodel by parsing the model description; and
 - generate code using the set of intermediate objects as inputs to derive ~~[[an]]~~ a metadata Application Program Interface (API), the metadata API enabling development tools to access the development objects to develop the application.
2. (Cancelled).
3. (Currently Amended) The computer-readable storage device of claim 1, wherein the second language comprises Extensible Markup Language (XML).

4. (Currently Amended) The computer-readable storage device of claim 1, wherein the first language comprises unified modeling language (UML).
5. (Cancelled).
6. (Previously Presented) The computer-readable storage device of claim 1, wherein the first language comprises a customizable extension.
7. (Previously Presented) The computer-readable storage device of claim 6, wherein the customizable extension is used to implement an additional feature of the API.
8. (Previously Presented) The computer-readable storage device of claim 7, wherein the additional feature comprises an indication of a file border.
9. (Previously Presented) The computer-readable storage device of claim 1, wherein the API comprises a copy and paste operation.
10. (Currently Amended) A non-transitory computer-readable storage device storing a computer program product ~~for deriving a metadata API from a metamodel in order to develop an application~~, the computer program product being operable to cause a data processing apparatus to:

receive ~~[[the]]~~a metamodel in a first language, the metamodel describing a diagram of classes that define one or more development objects, the development objects representing building blocks for

developing the application, wherein the first language comprises a
unified modeling language;

convert the metamodel to a model description that describes the
metamodel in a second language according to an interchange
format, wherein the second language comprises Extensible Markup
Language (XML);

generate a set of intermediate objects to represent the classes of the
metamodel by parsing the model description; and

generate code using the set of intermediate objects as inputs to derive
[[an]] a metadata Application Program Interface (API) including an
XML schema that enables implementation of the development
objects, and further wherein the metadata API enables
development tools to access the development objects to develop
the application.

11. (Cancelled).
12. (Previously Presented) The computer-readable storage device of claim 10,
wherein the second language comprises XML.
13. (Cancelled).
14. (Previously Presented) The computer-readable storage device of claim 10,
wherein the set of intermediate objects comprises Java objects.

15. (Previously Presented) The computer-readable storage device of claim 10, wherein the XML schema includes a tree based on aggregation relationships in the metamodel.
16. (Previously Presented) The computer-readable storage device of claim 10, wherein the XML schema includes a reference based on an association relationship in the metamodel first model.
17. (Previously Presented) The computer-readable storage device of claim 10, wherein the XML schema includes a complex type extension based on an inheritance relationship in the metamodel.
18. (Currently Amended) A non-transitory computer-readable storage device storing a computer program product ~~for deriving metadata API from a metamodel in order to develop an application, the computer program product~~ being operable to cause a data processing apparatus to:
 - receive the metamodel describing a diagram of classes that define one or more development objects, the development objects representing building blocks for developing the application;
 - generate an Extensible Markup Language Metadata Interchange (XMI) model that is a representation of the metamodel according to an interchange format;
 - generate a set of intermediate objects to represent the classes of the metamodel by parsing the XMI model using an Extensible Markup Language (XML) parser; and

generate code using the set of intermediate objects as inputs to derive
[[an]] a metadata API enabling development tools to access the
development objects to develop the application.

19. (Cancelled).
20. (Currently Amended) The computer-readable storage device of claim 18,
~~wherein the operations comprise~~ wherein the computer program product is
further operable to cause the data processing apparatus to:

 ~~creating~~ create a new development object as a transient object without an
 existing corresponding file; and

 ~~modifying~~ modify the transient object until the transient object is committed
 to a persistent file.
21. (Currently Amended) The computer-readable storage device of claim 20,
wherein the computer program product is further operable to cause the data
processing apparatus ~~further comprising instructions~~ to destroy the transient
object if a delete command is requested before the transient object is committed
to a persistent file.
22. (Currently Amended) The computer-readable storage device of claim 20,
wherein the computer program product is further operable to cause the data
processing apparatus ~~further comprising instructions~~ to mark the persistent file as
deleted if a delete command is requested after the transient object is committed
to a persistent file.

23. (Currently Amended) The ~~computer program product~~ computer-readable storage device of claim 1, wherein the metamodel is stored on one of a storage module, a server, and a portable storage device.
24. (Previously Presented) The computer-readable storage device of claim 18, wherein the metamodel is stored on one of a storage module, a server, and a portable storage device.
25. (Previously Presented) The computer-readable storage device of claim 1, wherein the set of intermediate objects comprises Java objects.
26. (Previously Presented) The computer-readable storage device of claim 18, wherein the set of intermediate objects comprises Java objects.